



HCMOS TCXO STO-7050B

Applications

- Cellular and Network equipment

Features

- HCMOS output with Tri-state function
- Ceramic package, Dimensions(7.0×5.0×1.40)
- High stability $\pm 2.5\text{ppm} / -30^{\circ}\text{C} \sim +75^{\circ}\text{C}$
- Low current consumption
- Low phase noise, Low jitter

Specifications



Model		STO-7050B
Frequency range		2.500~55.000 MHz
Nominal frequency (MHz)		5, 10, 12, 16, 20, 24, 32, 40, 44
Storage temperature range		-40~+125 °C
Operating temperature range		-30~+75 °C
Frequency stability	Tolerance at 25°C	$\pm 2.0 \times 10^{-6}$ (Sixty minutes after reflow)
	Temperature (+25°C basis)	$\pm 2.5 \times 10^{-6} / -30 \sim +75^{\circ}\text{C}$
	Supply voltage change	$\pm 0.2 \times 10^{-6} / \text{Vdd} \pm 5\%$
	Load change	$\pm 0.2 \times 10^{-6} / \text{ZL} \pm 10\%$
Aging		$\pm 1.0 \times 10^{-6} / \text{year at } +25^{\circ}\text{C}$
Power supply voltage (Vdd)		+2.5V, +2.8V, +3.3V DC $\pm 5\%$
Current consumption		*note / 10uA max (Standby)
Output level		C-MOS
Load		15pF
Output voltage level		V _{OL} : 10%Vdd max. / V _{OH} : 90%Vdd min.
Rise & Fall time		5ns max. / 10%Vdd - 90%Vdd
Duty cycle		45%~55% at 1/2Vdd
Phase Noise / Jitter		-145dBc / Hz Typ. at 10kHz offset / 1 σ 3ps typ.
Tri-state Function		#1: Floating. or "H"→Output enable / #1: "L"→Output disable (Hi-Z)

*Reference / Idd Spec (mA max.)

Frequency	4~10MHz	~20MHz	~30MHz	~40MHz	~54MHz
2.5V	3.1	3.7	4.2	4.6	5.5
2.8V	3.4	4.1			